PCW_09_22 Coordinate transformations v13

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = 6 \cdot f\left[\frac{x}{8} - 5\right] - 2$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = \frac{f[7(x-2)] + 5}{6}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = \frac{f\left[\frac{x+5}{2}\right]}{4} - 6$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

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Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = 4 \cdot (f[6x+8] - 9)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = 5 \cdot (f[7(x+9)] + 3)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = 7 \cdot f\left[\frac{x}{2} + 4\right] + 8$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.